=> fil_reg; d ide; fil capl uspatfull; s 111 FILE 'REGISTRY' ENTERED AT 11:00:13 ON 07 JAN 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 5 JAN 2004 HIGHEST RN 634558-38-6 DICTIONARY FILE UPDATES: 5 JAN 2004 HIGHEST RN 634558-38-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN L11

438192-11-1 REGISTRY RN

Benzamide, N-(1,1-dimethylethyl)-4-[[[2-(1-piperazinyl)phenyl]amino]sulfonCN (CA INDEX NAME) yl]- (9CI)

FS 3D CONCORD

MF C21 H28 N4 O3 S

SR CA

/- these are the only files in STN that contain refs to this Rogistry # elected species CA, CAPLUS, USPATFULL LC STN Files:

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

FILE 'CAPLUS' ENTERED AT 11:00:14 ON 07 JAN 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATFULL' ENTERED AT 11:00:14 ON 07 JAN 2004 CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

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L12
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2 L11

=> dup rem 112

PROCESSING COMPLETED FOR L12

L13

2 DUP REM L12 (0 DUPLICATES REMOVED) ANSWER '1' FROM FILE CAPLUS

ANSWER '2' FROM FILE USPATFULL

=> d ibib abs hitrn 1-2

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:465810 - CAPLUS

DOCUMENT NUMBER:

137:46797

TITLE:

Diarylsulfonamides and N-arylbenzamides as nonpeptide

INVENTOR(S):

agonists and antagonists of vasopressin receptors Snyder, James P.; Liotta, Dennis C.; Venkatesan,

Hariharan; Wang, Minmin; Davis, Matthew C.

PATENT ASSIGNEE(S):

Emory University, USA

SOURCE:

PCT Int. Appl., 159 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

1

FAMILY ACC. NUM. COUNT:

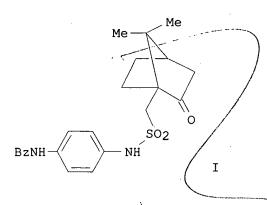
PATENT INFORMATION:

| PA | PATENT NO. | | | KI | ND | DATE | | | APPLICATION NO. | | | | | | DATE | | | | | |
|---------|------------|------|------|-----|-------------|------|------|----------------|-----------------|------|------|------|-----|----------|------|-----|-----|----|--|--|
| | | | | | | | | | _ | | | | | | | | | | | |
| WO | 2002 | 0476 | 79 | A | 2 | 2002 | 0620 | WO 2001-US4930 | | | | | | 20011217 | | | | | | |
| WO | 2002 | 0476 | 79 | C. | 1 | 2003 | 0130 | | | | | | | | | | | | | |
| WO | 2002 | 0476 | 79 | A. | A3 20030612 | | | | | | | | | | | | | | | |
| | W: | ΑE, | AG, | AL, | AM, | ΑT, | ΑU, | ΑZ, | BA, | BB, | BG, | BR, | BY, | BZ, | CA, | CH, | CN, | | | |
| | | CO, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | ES, | FΙ, | GB, | GD, | GE, | GH, | | | |
| • | | GM, | HR, | ΗU, | ID, | IL, | IN, | IS, | JP, | ΚE, | KG, | KP, | KR, | ΚŻ, | LC, | LK, | LR, | | | |
| | | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | ΜZ, | NO, | ΝZ, | OM, | PH, | | | |
| | | PL, | PT, | RO, | RU, | SD, | SE, | SG, | SI, | SK, | SL, | ТJ, | TM, | TN, | TR, | TT, | ΤZ, | | | |
| | | UA, | UG, | UZ, | VN, | YU, | ZA, | ZM, | ZW, | AM, | AZ, | BY, | KG, | ΚZ, | MD, | RU, | ТJ, | TM | | |
| | RW: | GH, | GM, | ΚE, | LS, | MW, | ΜZ, | SD, | SL, | SZ, | ΤZ, | UG, | ZM, | ZW, | ΑT, | BE, | CH, | | | |
| ÷ | | CY, | DE, | DK, | ES, | FI, | FR, | GB, | GR, | ΙE, | ΙΤ, | LU, | MC, | NL, | PT, | SE, | TR, | | | |
| | | | | | | | | | | GQ, | GW, | ML, | MR, | ΝE, | SN, | TD, | TG | | | |
| | 2002 | | | | | | | | | | | | | 2001 | 1217 | | | | | |
| | 2002 | | | | 1 | 2002 | 0912 | | U | S 20 | 01-2 | 3603 | | 2001 | 1217 | | | | | |
| PRIORIT | Y APP | LN. | INFO | .: | | | | 1 | US 2 | 000- | 2559 | 46P | Р | 2000 | 1215 | | | | | |
| 000000 | | | | | | | | | | 001- | US49 | 303 | W | 2001 | 1217 | | | | | |

OTHER SOURCE(S):

MARPAT 137:46797

GI



The title compds. were prepd. as agonists and/or antagonists of V2, V1a or AΒ both receptors, in humans, for use in treating renal dysfunction or hypertension (no data). Thus, the sulfonamide I was obtained by benzoylating p-phenylenediamine and reaction with (-)-camphorsulfonyl chloride.

438192-11-1P ΙT

> RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (diarylsulfonamides and N-arylbenzamides as nonpeptide agonists and

antagonists of vasopres in receptors)

=> fil reg; d stat que 16; fil capl; d que nos 17; fil uspatf; d que nos 18 FILE 'REGISTRY' ENTERED AT 10:38:05 ON 07 JAN 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 American Chemical Society (ACS)

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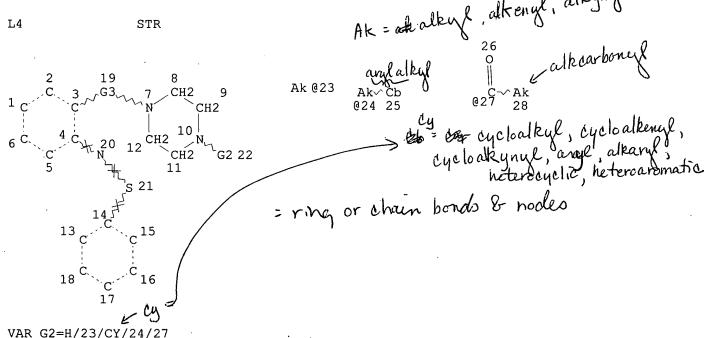
STRUCTURE FILE UPDATES: 5 JAN 2004 HIGHEST RN 634558-38-6 DICTIONARY FILE UPDATES: 5 JAN 2004 HIGHEST RN 634558-38-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html



REP G3=(0-1) CH2
NODE ATTRIBUTES:
CONNECT IS E1 RC AT 23
CONNECT IS E2 RC AT 24
CONNECT IS E1 RC AT 28
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE

L6 53 SEA FILE=REGISTRY SSS FUL L4

100.0% PROCESSED 13069 ITERATIONS SEARCH TIME: 00.00.01

53 ANSWERS

FILE 'CAPLUS' ENTERED AT 10:38:06 ON 07 JAN 2004
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FILE COVERS 1907 - 7 Jan 2004 VOL 140 ISS 2 FILE LAST UPDATED: 6 Jan 2004 (20040106/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

L4 STR
L6 53 SEA FILE=REGISTRY SSS FUL L4
L7 12 SEA FILE=CAPLUS ABB=ON L6

FILE 'USPATFULL' ENTERED AT 10:38:06 ON 07 JAN 2004 CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 6 Jan 2004 (20040106/PD)
FILE LAST UPDATED: 6 Jan 2004 (20040106/ED)
HIGHEST GRANTED PATENT NUMBER: US6675388
HIGHEST APPLICATION PUBLICATION NUMBER: US2004003444
CA INDEXING IS CURRENT THROUGH 6 Jan 2004 (20040106/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 6 Jan 2004 (20040106/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2003
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2003

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>>> USPAT2 is now available. USPATFULL contains full text of the
>>> original, i.e., the earliest published granted patents or
                                                                      <<<
    applications. USPAT2 contains full text of the latest US
>>>
                                                                      <<<
    publications, starting in 2001, for the inventions covered in
                                                                      <<<
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    USPATFULL. A USPATFULL record contains not only the original
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    published document but also a list of any subsequent
                                                                       <<<
    publications. The publication number, patent kind code, and
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    publication date for all the US publications for an invention
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>>> are displayed in the PI (Patent Information) field of USPATFULL
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>>> records and may be searched in standard search fields, e.g., /PN, <<<
   /PK, etc.
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>> USPATFULL and USPAT2 can be accessed and searched together

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أيدر نعيدر

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>>> through the new cluster USPATALL. Type FILE USPATALL to
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    enter this cluster.
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    Use USPATALL when searching terms such as patent assignees,
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    classifications, or claims, that may potentially change from
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    the earliest to the latest publication.
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This file contains CAS Registry Numbers for easy and accurate
substance identification.
L4
                STR
L6
            53 SEA FILE=REGISTRY SSS FUL L4
L8
              9 SEA FILE=USPATFULL ABB=ON L6
=> dup rem 17,18
FILE 'CAPLUS' ENTERED AT 10:38:10 ON 07 JAN 2004
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FILE 'USPATFULL' ENTERED AT 10:38:10 ON 07 JAN 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)
PROCESSING COMPLETED FOR L7
PROCESSING COMPLETED FOR L8
            20 DUP REM L7 L8 (1 DUPLICATE REMOVED)
                ANSWERS '1-12' FROM FILE CAPLUS
                ANSWERS '13-20' FROM FILE USPATFULL
=> d ibib abs hitstr 1-20; fil cao; d que nos 19; fil hom
L10 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
ACCESSION NUMBER:
                         1999:495123 CAPLUS
DOCUMENT NUMBER:
                         131:129760
TITLE:
                         Preparation of sulfonamidobenzenehydroxamates and
                         analogs as matrix metalloproteinase and TACE
                         inhibitors
INVENTOR(S):
                         Levin, Jeremy Ian; Du, Mila T.; Venkatesan, Aranapakam
                         Mudumbai; Nelson, Frances Christy; Zask, Arie; Gu,
                         Yansong
PATENT ASSIGNEE(S):
                         American Cyanamid Co., USA
                         U.S., 68 pp.
SOURCE:
                         CODEN: USXXAM
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                    KIND
                            DATE
                                          APPLICATION NO. DATE
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                           -----
                                          -----
     US 5929097
                           19990727
                                          US 1997-944593
                                                           19971006
PRIORITY APPLN. INFO.:
                                        US 1996-28504P P 19961016
OTHER SOURCE(S):
                       MARPAT 131:129760
     RSO2N(CH2R7)ZCONHOH [I; R = (un)substituted (hetero)aryl; R7 = H, alkyl,
     Ph, etc.; Z = (un)substituted phenylene or -naphthylene] were prepd.
     Thus, 2-(H2N)C6H4CO2Me was amidated by 4-(MeO)C6H4SO2C1 and the
     N-benzylated product converted in 2 steps to I [R = C6H4(OMe)-4, R7 = Ph,
     Z = 1,2-phenylene]. Data for biol. activity of I were given.
```

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

206548-68-7P 206549-86-2P 206549-98-6P

206550-01-8P 206550-02-9P

BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of sulfonamidobenzenehydroxamates and analogs as matrix metalloproteinase and TACE inhibitors)

RN 206548-68-7 CAPLUS

CN

Benzamide, N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

RN 206549-86-2 CAPLUS

CN Benzamide, 5-bromo-N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

RN 206549-98-6 CAPLUS

CN Benzamide, N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl]octylamino]-3-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

RN 206550-01-8 CAPLUS

CN Benzamide, N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl](3-thienylmethyl)amino]-3-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

RN 206550-02-9 CAPLUS

CN Benzamide, N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl](phenylmethyl)amino]-3-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

IT 206548-66-5P 206548-67-6P 206549-85-1P 206549-97-5P 206550-00-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of sulfonamidobenzenehydroxamates and analogs as matrix metalloproteinase and TACE inhibitors)

metalloproteinase and TA 206548-66-5 CAPLUS

CN Benzoic acid, 2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3-[(4-methyl-1-piperazinyl)methyl]-, methyl ester (9CI) (CA INDEX NAME)

RN

RN 206548-67-6 CAPLUS

CN Benzoic acid, 2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3-[(4-methyl-1-

piperazinyl)methyl] - (9CI) (CA INDEX NAME)

RN 206549-85-1 CAPLUS

CN Benzoic acid, 5-bromo-2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3-[(4-methyl-1-piperazinyl)methyl]-, methyl ester (9CI) (CA INDEX NAME)

RN 206549-97-5 CAPLUS

CN Benzoic acid, 2-[[(4-methoxyphenyl)sulfonyl]octylamino]-3-[(4-methyl-1-piperazinyl)methyl]-, methyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & (CH_2) & 7-Me \\ MeO-C & O & OMe \\ \hline N-S & & \\ \hline O & \\ CH_2-N & \\ Me & \\ \end{array}$$

RN 206550-00-7 CAPLUS

CN Benzoic acid, 2-[[(4-methoxyphenyl)sulfonyl](3-thienylmethyl)amino]-3-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:434371 CAPLUS

DOCUMENT NUMBER:

139:22109

TITLE:

Preparation of piperazinyl carboxamides, sulfonamides,

ureas and related compounds as CCR3 receptor

antagonists for treating asthma

INVENTOR(S):

Du Bois, Daisy Joe; Kertesz, Denis John; Sjogren, Eric

Brian; Smith, David Bernard; Wang, Beihan

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 59 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

3

LANGUAGE:

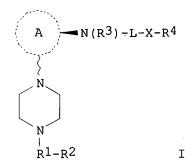
English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| P | PATENT NO. | | | KI | ND DATE | | | | APPLICATION NO. | | | | | DATE | | | | |
|---------|------------|----------|------|-------|---------|------|------|-----|-----------------|------|------|------|--------|------|------|-----|-----|----|
| W(| 0 2003 | 0453 | 93 | A | 1 | 2003 | 0605 | | W | 20 | 02-E | P132 | 17 | 2002 | 1125 | | | |
| ••• | W: | | | | | | | | | | | | | BZ, | | CH. | CN. | |
| | | | | | | | | | | | | | | GB, | | | | |
| | | | | | | | | | | | | | | ΚZ, | | | | |
| | | | | | | | | | | | | | | NO, | | | | |
| | | | | | | | | | | | | | | TN, | | | | |
| | | | | | | | | | | | | | | ΚZ, | | | | TM |
| | RW: | | | | | | | | | | | | | ZW, | | | | |
| | | | | | | | | | | | | | | IT, | | | | |
| | • | | | | | BF, | BJ, | CF, | CG, | CI, | CM, | GA, | GN, | GQ, | GW, | ML, | MR, | |
| T10 | s 2003. | • | SN, | | | 2002 | 0010 | | 11 | c 20 | ດາ ວ | 071E | 0 | 2002 | 1120 | | | |
| | S 2003 | | | | | | | | | S 20 | | | | 2002 | | | | |
| PRIORI' | | | | | 1 | 2003 | 1211 | | - | | | | - | 2002 | | | | |
| TICIONI | II AII. | ш. | INIO | • • | | | | | | | | | | 2001 | | | | |
| | | | | | | | | | | | | | _ | 2001 | | | | |
| OTHER : | SOURCE | (S): | | | MAR | PAT | 139: | | | | | | - | | | | | |

GΙ



The present invention relates to piperazinyl carboxamides, sulfonamides, AB ureas and related compds. (shown as I; variables defined below; e.g. trans-1-[4-[4-(4-chlorobenzyl)piperazin-1-yl]tetrahydrofuran-3-yl]-3-(3,4,5-trimethoxyphenyl)urea dihydrochloride). The compds. are useful as CCR3 receptor antagonists by blocking the ability of the CCR-3 receptor to bind RANTES, MCP-3 and eotaxin and thereby preventing the recruitment of eosinophils, and therefore, may be used for treatment of CCR3 mediated diseases such as asthma or for diagnosis. Five pharmaceutical formulations are described. Seven example prepns. of I are included. example, the above compd. was prepd. in 77% yield from trans-4-[4-(4-chlorobenzyl)piperazin-1-yl]tetrahydrofuran-3-ylamine (0.41 mmol) and 5-isocyanato-1,2,3-trimethoxybenzene (0.50 mmol) in CH2Cl2; prepn. of the amine is also described. IC50 values for inhibiting the binding of 125I eotaxin to CCR-3 L1.2 transfectant cells were detd. for 4 examples of I, e.g. 0.1099 .mu.M for the above example. For I: R1 is (C1-C2)alkylene; R2 is (un)substituted phenyl; R3 is H, C1-6 alkyl, acyl, aryl, or aryl C1-6-alkyl; ring A is a C3-7 cycloalkyl, heterocyclyl, or (un) substituted phenyl; L is -C(0)-, -C(S)-, -SO2-, -C(0)N(Ra)-, -C(S)N(Ra)-, -SO2N(Ra)-, -C(O)O-, -C(S)O-, -S(O)2O-; where Ra is H, C1-6 alkyl, acyl, aryl, aryl C1-6 alkyl, C1-6-alkoxycarbonyl, or benzyloxycarbonyl. X is absent, -(CR'R'')O-, -(CR'R'')S-, -(CR'R'')NRb-or C1-6 alkylene; where R' and R'' = H or C1-6-alkyl, and Rb is H or C1-6 alkyl; R4 is aryl or heteroaryl; provided that I is not 1-[2-[4-(3,4-dichlorobenzyl)piperazin-1-yl]cyclohexyl]-3-(3methoxyphenyl)urea; and provided that when ring A is Ph or cyclohexyl, then R2 is substituted Ph.

538342-67-5P, N-[2-[4-(3,4-Dichlorobenzyl)piperazin-1-yl]phenyl]-4methylbenzenesulfonamide
RL: DGN (Diagnostic use); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)

(drug candidate; prepn. of piperazinyl carboxamides, sulfonamides, ureas and related compds. as CCR3 receptor antagonists for treating/diagnosing asthma)

RN 538342-67-5 CAPLUS

CN

Benzenesulfonamide, N-[2-[4-[(3,4-dichlorophenyl)methyl]-1-piperazinyl]phenyl]-4-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

3

ACCESSION NUMBER:

2002:849607 CAPLUS

DOCUMENT NUMBER:

137:353007

TITLE:

Preparation of .beta.-carbolines and other inhibitors

of BACE-1 aspartic proteinase useful against Alzheimer's and other BACE-mediated diseases

INVENTOR(S):

Bhisetti, Govinda R.; Saunders, Jeffrey O.; Murcko,

Mark A.; Lepre, Christopher A.; Britt, Shawn D.; Come,

Jon H.; Deninger, David D.; Wang, Tianshang Vertex Pharmaceuticals Incorporated, USA

PATENT ASSIGNEE(S):

PCT Int. Appl., 208 pp.

SOURCE:

GΙ

CODEN: PIXXD2

DOCUMENT TYPE:

Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATEN | PATENT NO. | | | | | ND DATE | | A | PPLI | CATI | и ис | ٥. | DATE | | | | |
|---------------------|--------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--|
| | | | | | 20021107 | | | WO 2002-US13741 20020429 | | | | | | | | | |
| | CO, GM, LS, PL, | AG, CR, HR, LT, PT, | AL, CU, HU, LU, RO, | AM, CZ, ID, LV, RU, | AT, DE, IL, MA, SD, | AU, DK, IN, MD, SE, | DM, IS, MG, SG, | DZ, JP, MK, SI, | EC, KE, MN, SK, | EE, KG, MW, SL, | ES, KP, MX, TJ, | FI, KR, MZ, TM, | GB, KZ, NO, TN, | GD, LC, NZ, TR, | GE, LK, OM, TT, | GH, LR, PH, TZ, | |
| F | TJ, W: GH, CY, | TM GM, DE, | KE, DK, | LS, ES, | MW, FI, | MZ, FR, | SD, GB, | SL, GR, | SZ, IE, | TZ, IT, | UG, LU, | ZM, MC, | NL, | AT, | BE, SE, | CH, TR, | |
| US 20 PRIORITY A | 030959 | 58 | Α | | | | | US 2 US 2 | S 20 001- 001- | 02-1 2871 3010 | 3657 69P 49P | 6 P P | NE, 2002 2001 2001 2001 | 0429 0427 0626 | TD, | TG | |
| OTHER SOUR | RCE(S): | | | MAR | RPAT : | 137: | 3530 | 07 | | | | | | | | | |

AB The present invention relates to a wide variety of inhibitors (e.g. naphthalene-1-carboxylic acid N-[2-(3,4-dichlorophenyl)-4-(piperazin-1yl)pyrimidin-5-yl]amide; 9-[(naphthalen-2-yl)methyl]-6-[(3trifluoromethylbenzyl)oxy]-2,3,4,9-tetrahydro-1H-.beta.-carboline; 4-(biphenyl-4-yl)piperidine-3-carboxylic acid N-(1-(naphthalen-2yl)ethyl)amide) of aspartic proteinases, particularly, BACE. The present invention also relates to compns. thereof and methods therewith for inhibiting BACE activity in a mammal, and for treating Alzheimer's Disease and other BACE-mediated diseases. The inhibitors have the following structural features: HB-1, HPB-4; and at least one of HPB-2 and HPB-3, wherein: HB-1 is a 1st H bonding moiety capable of forming up to four H bonds with the carboxylate O atoms of Asp-228 and Asp-32 of BACE-1; HPB-2 is a 2nd hydrophobic moiety capable of assocg. with substantially all residues in the flap binding pocket; HPB-3 is a 3rd hydrophobic moiety capable of assocg. with substantially all residues in the P2' binding pocket; HPB-4 is a 4th hydrophobic moiety capable of inducing favorable interactions with the Ph ring of at least two of Tyr-71, Phe-108 and Trp-76. In I (e.g. [6-(2-difluoromethoxybenzyloxy)-1,2,3,4-tetrahydro-.beta.-carbolin-9-yl]naphthalen-1-ylmethanone), one set of the claimed compds., A is a five or six membered aryl ring having 0-2 heteroatoms independently selected from N, O or S, wherein: A has at least one R10 substituent and up to three more substituents selected from R10 or J; k is 0 or 1; n is 0-2; J is halogen, -R', -OR', -NO2, -CN, -CF3, -OCF3, oxo, 1,2-methylenedioxy, -N(R')2, -SR', -S(0)R', -S(0)N(R')2, -SO2R', -C(0)R', -CO2R', -C(0)N(R')2, -N(R')C(0)R', -N(R')C(0)OR', -N(R')C(0)N(R')2, or -OC(O)N(R')2, wherein R' is H, aliph., heterocyclyl, heterocyclyl-alkyl, aryl, aralkyl, heteroaryl, or heteroaralkyl; wherein R' is optionally substituted with up to 3 substituents selected independently from -R11, -OR11, -NO2, -CN, -CF3, -OCF3, oxo, 1,2-methylenedioxy, -N(R11)2, -SR11, -S(0)R11, -S(0)N(R11)2, -S02R11, -C(0)R11, -C02R11, -C(0)N(R11)2, -N(R11)C(0)R', -N(R11)C(0)OR11, -N(R11)C(0)N(R11)2, or -OC(0)N(R11)2. is H, (C1-C6)-alkyl, (C2-C6)-alkenyl or alkynyl, or (C3-C6)cycloalkyl; R10 is P1-R1-P2-R2-W; P1 and P2 each are independently: absent or aliph.; R1 and R2 each are independently: absent or R; R is a suitable linker; W is a five to eleven membered monocyclic or bicyclic, arom. or nonarom. ring having zero to three heteroatoms independently selected from O, S, N, or NH, wherein W has up to 3 substituents independently selected from J. Ranges of Ki values (>30, 3-30 and <3 .mu.M) for inhibition of BACE-1 are tabulated for .apprx.500 compds. Although the methods of prepn. are not claimed, 30 example prepns. are included.

474329-75-4P, 4'-Trifluoromethylbiphenyl-4-sulfonic acid N-(2-(piperazin-1-yl)-5-trifluoromethylphenyl)amide 474329-76-5P, 4'-Trifluoromethylphenyl-4-sulfonic acid N-(2-(piperazin-1-yl)-5-trifluoromethylphenyl)amide trifluoroacetate 474331-10-7P, Naphthalene-1-sulfonic acid N-(2-(piperazin-1-yl)-5-trifluoromethylphenyl)amide 474331-11-8P, Naphthalene-2-sulfonic acid N-(2-(piperazin-1-yl)-5-trifluoromethylphenyl)amide 474331-12-9P, Biphenyl-4-sulfonic acid N-(2-(piperazin-1-yl)-5-trifluoromethylphenyl)amide 474331-44-7P, 2'-Trifluoromethylphenyl-4-sulfonic acid N-(2-(piperazin-1-yl)-5-trifluoromethylphenyl)amide 474331-50-5P, 4'-Trifluoromethylphenyl-4-sulfonic acid N-(3',4'-dichloro-4-(piperazin-1-yl)-5-trifluoromethylphenyl-4-sulfonic acid N-(3',4'-dichloro-4-(piperazin-1-yl)-5-trifluoromethylphenyl-4-

yl)biphenyl-3-yl)amide 474331-51-6P, 3'-Chlorobiphenyl-4-sulfonic acid (3',4'-dichloro-4-(piperazin-1-yl)biphenyl-3-yl)amide 474331-52-7P, 4'-Chlorobiphenyl-4-sulfonic acid (3',4'-dichloro-4-(piperazin-1-yl)biphenyl-3-yl)amide 474331-53-8P, 3'-Methylbiphenyl-4-sulfonic acid (3',4'-dichloro-4-(piperazin-1-yl)biphenyl-3-yl)amide 474331-54-9P, 4'-Methylbiphenyl-4-sulfonic acid (3',4'-dichloro-4-(piperazin-1-yl)biphenyl-3-yl)amide RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; prepn. of .beta.-carbolines and other inhibitors of BACE-1 aspartic proteinase useful against Alzheimer's and other BACE-mediated diseases)

RN 474329-75-4 CAPLUS

CN

[1,1'-Biphenyl]-4-sulfonamide, N-[2-(1-piperazinyl)-5-(trifluoromethyl)phenyl]-4'-(trifluoromethyl)- (9CI) (CA INDEX NAME)

RN 474329-76-5 CAPLUS

CN [1,1'-Biphenyl]-4-sulfonamide, N-[2-(1-piperazinyl)-5-(trifluoromethyl)phenyl]-4'-(trifluoromethyl)-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 474329-75-4 CMF C24 H21 F6 N3 O2 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 474331-10-7 CAPLUS

CN 1-Naphthalenesulfonamide, N-[2-(1-piperazinyl)-5-(trifluoromethyl)phenyl]-(9CI) (CA INDEX NAME)

RN 474331-11-8 CAPLUS

CN 2-Naphthalenesulfonamide, N-[2-(1-piperazinyl)-5-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

RN 474331-12-9 CAPLUS

CN [1,1'-Biphenyl]-4-sulfonamide, N-[2-(1-piperazinyl)-5-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

RN 474331-44-7 CAPLUS

CN [1,1'-Biphenyl]-4-sulfonamide, N-[2-(1-piperazinyl)-5-(trifluoromethyl)phenyl]-2'-(trifluoromethyl)- (9CI) (CA INDEX NAME)

RN 474331-50-5 CAPLUS

CN [1,1'-Biphenyl]-4-sulfonamide, N-[3',4'-dichloro-4-(1-piperazinyl)[1,1'-biphenyl]-3-yl]-4'-(trifluoromethyl)- (9CI) (CA INDEX NAME)

RN 474331-51-6 CAPLUS

CN [1,1'-Biphenyl]-4-sulfonamide, 3'-chloro-N-[3',4'-dichloro-4-(1-piperazinyl)[1,1'-biphenyl]-3-yl]- (9CI) (CA INDEX NAME)

RN 474331-52-7 CAPLUS

CN [1,1'-Biphenyl]-4-sulfonamide, 4'-chloro-N-[3',4'-dichloro-4-(1-piperazinyl)[1,1'-biphenyl]-3-yl]- (9CI) (CA INDEX NAME)

4

RN 474331-53-8 CAPLUS

CN [1,1'-Biphenyl]-4-sulfonamide, N-[3',4'-dichloro-4-(1-piperazinyl)[1,1'-biphenyl]-3-yl]-3'-methyl- (9CI) (CA INDEX NAME)

RN 474331-54-9 CAPLUS

CN [1,1'-Biphenyl]-4-sulfonamide, N-[3',4'-dichloro-4-(1-piperazinyl)[1,1'-biphenyl]-3-yl]-4'-methyl- (9CI) (CA INDEX NAME)

L10 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:465810 CAPLUS

DOCUMENT NUMBER: 137:46797

TITLE: ${\tt Diaryl sulfonamides} \ {\tt and} \ {\tt N-aryl benzamides} \ {\tt as} \ {\tt nonpeptide}$

agonists and antagonists of vasopressin receptors Snyder, James P.; Liotta, Dennis C.; Venkatesan,

Hariharan; Wang, Minmin; Davis, Matthew C.

PATENT ASSIGNEE(S): Emory University, USA SOURCE: PCT Int. Appl., 159 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

INVENTOR(S):

| E | PATENT NO. | | | | KI | ND | DATE | | APPLICATION NO. | | | | | DATE | | | | | |
|--------|------------|-------|------|------|--------|-----|------|------|-----------------|------|------|-------|------|------|------|------|-----|-----|----|
| - V | 10 | 2002 | 0476 | 79 | A: | 2 | 2002 | 0620 | | W | 0 20 | 01-U | S493 | 03 | 2001 | 1217 | | | |
| V | VO | 20020 | 0476 | 79 | C | 1 | 2003 | 0130 | | | | | | | | | | | |
| V | VO | 2002 | 0476 | 79 | A. | 3 | 2003 | 0612 | | | | | | | | | | | |
| | | W: | ΑE, | AG, | AL, | AM, | ΑT, | ΑU, | ΑZ, | ΒA, | BB, | BG, | BR, | BY, | BZ, | CA, | CH, | CN, | |
| | | | co, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | ES, | FI, | GB, | GD, | GE, | GH, | |
| | | | GM, | HR, | HU, | ID, | IL, | IN, | IS, | JP, | KE, | KG, | KP, | KR, | KZ, | LC, | LK, | LR, | |
| | | | | | | | | | | | | | | | NO, | | | | |
| | | | | | | | | | | | | | | | TN, | | | | |
| | | | | | | | | | | | | | | | KZ, | | | | TM |
| | | RW: | | | | | | | | | | | | | ZW, | | | | |
| | | | | | | | | | | | | | | | NL, | | | | |
| | | | BF, | ВJ, | CF, | CG, | CI, | CM, | GA, | GN, | GQ, | GW, | ML, | MR, | NE, | SN, | TD, | TG | |
| P | U. | 20020 | | | | | | | | | | | | | 2001 | | Ť | • | |
| Ţ | JS | 2002 | 1282 | 80 | A. | 1 | 2002 | 0912 | | U | S 20 | 01-2 | 3603 | | 2001 | 1217 | | | |
| PRIORI | TY | APP | LN. | INFO | .: | | | | 1 | US 2 | 000- | 2559 | 46P | P | 2000 | 1215 | | | |
| | | | | | | | | | Ţ | WO 2 | 001- | US49: | 303 | W | 2001 | 1217 | | | |
| OTHER | SC | URCE | (S): | | | MAR | PAT | 137: | 4679 | 7 | | | | | | | | | |

GΙ

AB The title compds. were prepd. as agonists and/or antagonists of V2, V1a or both receptors, in humans, for use in treating renal dysfunction or hypertension (no data). Thus, the sulfonamide I was obtained by benzoylating p-phenylenediamine and reaction with (-)-camphorsulfonyl chloride.

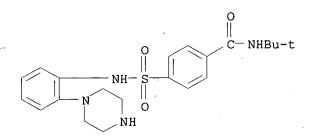
IT 438192-11-1P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(diarylsulfonamides and N-arylbenzamides as nonpeptide agonists and antagonists of vasopressin receptors)

RN 438192-11-1 CAPLUS

CN Benzamide, N-(1,1-dimethylethyl)-4-[[[2-(1-piperazinyl)phenyl]amino]sulfon yl]- (9CI) (CA INDEX NAME)



L10 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

Ι

ACCESSION NUMBER:

2002:251349 CAPLUS

DOCUMENT NUMBER:

137:304258

TITLE:

Anthranilate sulfonamide hydroxamate TACE inhibitors.

Part 2: SAR of the acetylenic P1' group

AUTHOR(S):

Levin, J. I.; Chen, J. M.; Du, M. T.; Nelson, F. C.; Killar, L. M.; Skala, S.; Sung, A.; Jin, G.; Cowling, R.; Barone, D.; March, C. J.; Mohler, K. M.; Black, R.

A.; Skotnicki, J. S.

CORPORATE SOURCE:

SOURCE:

Wyeth-Ayerst Research, Pearl River, NY, 10965, USA Bioorganic & Medicinal Chemistry Letters (2002),

12(8), 1199-1202

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER:

Elsevier Science Ltd.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

GΙ

HO—NH—CO
$$N$$
—SO2
 O —CH2-C \equiv C—Me
 CH_2-N
 N —Me

Ι

AB The SAR of a series of potent sulfonamide hydroxamate TACE inhibitors bearing novel acetylenic P1' groups was explored. In particular, compd. I bearing a butynyloxy P1' moiety has excellent in vitro potency against isolated TACE enzyme and in cells, good selectivity over MMP-1 and oral activity in an in vivo model of TNF-.alpha. prodn. It has been postulated that agents that inhibit TACE, and thereby reduce levels of sol. TNF-.alpha., might offer an effective treatment for rheumatoid arthritis.

IT 206549-86-2P 470662-87-4P 470662-88-5P

206549-86-2P 470662-87-4P 470662-88-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(structure-activity relations of sulfonamide hydroxamate TACE inhibitors)

RN 206549-86-2 CAPLUS

CN Benzamide, 5-bromo-N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

RN 470662-87-4 CAPLUS

CN Benzamide, 5-bromo-2-[[[4-(2-butynyloxy)phenyl]sulfonyl]methylamino]-N-hydroxy-3-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

RN 470662-88-5 CAPLUS

CN [1,1'-Biphenyl]-3-carboxamide, 4-[[[4-(2-butynyloxy)phenyl]sulfonyl]methyl amino]-N-hydroxy-5-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

IT 470662-90-9P 470662-91-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
 (structure-activity relations of sulfonamide hydroxamate TACE
 inhibitors)

RN 470662-90-9 CAPLUS

CN Benzoic acid, 5-bromo-2-[[(4-hydroxyphenyl)sulfonyl]methylamino]-3-[(4-methyl-1-piperazinyl)methyl]-, methyl ester (9CI) (CA INDEX NAME)

RN 470662-91-0 CAPLUS

CN [1,1'-Biphenyl]-3-carboxylic acid, 4-[[(4-hydroxyphenyl)sulfonyl]methylami no]-5-[(4-methyl-1-piperazinyl)methyl]-, methyl ester (9CI) (CA INDEX NAME)

REFERENCE COUNT:

27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:441258 CAPLUS

DOCUMENT NUMBER: 135:53457

TITLE: Silver halide color photographic material containing

pyrrolotriazole cyan coupler

INVENTOR(S): Tateishi, Keiichi; Mikoshiba, Takashi; Matsuda, Naoto

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 75 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------|-------------|----------|-------------------|----------|
| TD 0001160007 | | | | |
| JP 2001163887 | · A2 | 20010619 | JP 2000-282530 | 20000918 |
| US 6399291 | B1 | 20020604 | US 2000-675213 | 20000929 |
| US 6495697 | В1 | 20021217 | US 2002-121593 | 20020415 |
| PRIORITY APPLN. INFO |). : | | JP 1999-279838 A | 19990930 |
| • | | | US 2000-675213 A3 | 20000929 |

OTHER SOURCE(S): MARPAT 135:53457

GΙ

$$R^{1}$$
 R^{2}

$$X \longrightarrow NH$$

$$G^{1} = G^{2}$$

$$I$$

$$Q = (R^5)_n$$

$$R^3R^4N$$

The material contains a coupler I [X = H, substituent to be released on coupling with an arom. primary amine color developer; R1, R2 = electron attractive group with Hammett's .sigma.p value .gtoreq.0.20; .sigma.p(R1) + .sigma.p(R2) .gtoreq.0.65; G1, G2 = N, Q (R3 = each (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heterocycle; R4 = H, substituent linked with C; R3 and R4 may form a ring; R5 = substituent; n = 0-4); .gtoreq.1 of G1-2= N; I may form a dimer or (co)polymer] in .gtoreq.1 layer on a support. The pyrrolotriazole compd. I (X = H, halo, C1-32 alkyloxy, C6-32 aryloxy, C1-32 alkylthio, C6-32 arylthio, C2-32 heterocyclic thio, C2-32 alkyloxycarbonyloxy, C7-32 aryloxycarbonyloxy, C1-32 carbamoyloxy, C3-32 heterocyclic carbonyloxy, 5- or 6-membered C2-32 N-contg. heterocycle linking to a coupling active site with N; R1, R2 = electron attractive group with Hammett's .sigma.p value .gtoreq.0.20; .sigma.p(R1) + .sigma.p(R2) .gtoreq.0.65; G1, G2 = N, Q) is also claimed. The material shows improved color reprodn., colored image stability, and processing stability.

IT 344941-66-8P

CN

RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)

(silver halide color photog. material contg. pyrrolotriazole cyan coupler)

RN 344941-66-8 CAPLUS

1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-[4-[4-(2,2-dimethyl-1-oxopropyl)-1-piperazinyl]-3-[[[2-[[1-[[(3-ethoxy-3-oxopropyl)amino]carbonyl]undecyl]oxy]-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)

CAPLUS COPYRIGHT 2004 ACS on STN L10 ANSWER 7 OF 20

ACCESSION NUMBER:

2001:780030 CAPLUS

DOCUMENT NUMBER:

136:232093

TITLE:

The discovery of anthranilic acid-based MMP

inhibitors. Part 3: incorporation of basic amines

AUTHOR(S):

Levin, J. I.; Chen, J. M.; Du, M. T.; Nelson, F. C.; Wehr, T.; DiJoseph, J. F.; Killar, L. M.; Skala, S.; Sung, A.; Sharr, M. A.; Roth, C. E.; Jin, G.; Cowling,

R.; Di, L.; Sherman, M.; Xu, Z. B.; March, C. J.;

Mohler, K. M.; Black, R. A.; Skotnicki, J. S.

CORPORATE SOURCE:

SOURCE:

Wyeth-Ayerst Research, Pearl River, NY, 10965, USA Bioorganic & Medicinal Chemistry Letters (2001),

11(22), 2975-2978

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER:

Elsevier Science Ltd.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Anthranilic acid derivs. bearing basic amines were prepd. and evaluated in vitro and in vivo as inhibitors of MMP-1, MMP-9, MMP-13, and TACE. One piperazine deriv. was identified as a potent, selective, orally active inhibitor of MMP-9 and MMP-13. An example compd. thus tested was N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl](3-pyridinylmethyl)amino]-3methylbenzamide.

ΙT 206548-68-7 206549-86-2 403704-30-3 403704-32-5 403704-33-6 403704-34-7

403704-35-8 RL: PAC (Pharmacological activity); BIOL (Biological study) (MMP-inhibiting activity of N-hydroxy-2-[[(4-

alkoxyphenyl)sulfonyl]amino]benzamide derivs.)

206548-68-7 CAPLUS RN

Benzamide, N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3-[(4-CN methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

RN 206549-86-2 CAPLUS

CN Benzamide, 5-bromo-N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

RN 403704-30-3 CAPLUS

CN Benzamide, 5-bromo-N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3-[(4-phenyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

RN 403704-32-5 CAPLUS

CN [1,1'-Biphenyl]-3-carboxamide, N-hydroxy-4-[[(4-methoxyphenyl)sulfonyl]methylamino]-5-[(4-methyl-1-piperazinyl)methyl]-4'-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

RN 403704-33-6 CAPLUS

CN Benzamide, N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3-[(4-methyl-1-piperazinyl)methyl]-5-(2-naphthalenyl)- (9CI) (CA INDEX NAME)

RN 403704-34-7 CAPLUS

CN Benzamide, 2-[[[4-(4-chlorophenoxy)phenyl]sulfonyl]methylamino]-N-hydroxy-3-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

RN . 403704-35-8 CAPLUS

CN Benzamide, 5-bromo-2-[[[4-(4-chlorophenoxy)phenyl]sulfonyl]methylamino]-N-hydroxy-3-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

IT 403704-35-8D, MMP-13 bound

RL: PRP (Properties)

(MMP-inhibiting activity of N-hydroxy-2-[[(4-

alkoxyphenyl)sulfonyl]amino]benzamide derivs.)

RN 403704-35-8 CAPLUS

CN Benzamide, 5-bromo-2-[[[4-(4-chlorophenoxy)phenyl]sulfonyl]methylamino]-N-hydroxy-3-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:640827 CAPLUS

DOCUMENT NUMBER:

131:267057

TITLE:

Sulfonamide derivatives and drugs containing the same

as the active ingredient

INVENTOR(S):

Hidaka, Hiroyoshi; Inoue, Tsutomu; Umezawa, Isao;

Nakano, Hiroyuki; Nakamura, Hiroshi; Watanabe,

Naofumi; Yokota, Shizumasa; Sasaki, Tomomitsu; Yajima,

Yumi

PATENT ASSIGNEE(S):

SOURCE:

Japan

PCT Int. Appl., 103 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent Japanese

LANGUAGE: 1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PA' | TENT | NO. | | KI | ND | DATE | | | A | PPI | LIC | ATI | ON NO | ο. | DATE | | | |
|----------|-------|------|------|-----|-----|------|------|-------|------|-----|-----|-----|-------|-----|------|------|-----|-----|
| | | | | | | | | | _ | | | | | | | | | |
| WO | 9950 | 237 | | Α | 1 | 1999 | 1007 | | W | 0 : | 199 | 9-J | P162 | 1 | 1999 | 0330 | | |
| | W: | CA, | US | | | | | | | | | | | | | | | |
| | RW: | ΑT, | BE, | CH, | CY, | DE, | DK, | ES, | FI, | F | R, | GB, | GR, | ΙE, | IT, | LU, | MC, | NL, |
| | | PT, | SE | | . • | | | | | | | | | | | | | |
| JP | 1127 | 9138 | | Α | 2 | 1999 | 1012 | | J | P : | 199 | 8-8 | 3804 | | 1998 | 0330 | | |
| CA | 2325 | 997 | | Α | Α | 1999 | 1007 | | С | A : | 199 | 9-2 | 3259 | 97 | 1999 | 0330 | | |
| EP | 1072 | 587 | | Α | 1 | 2001 | 0131 | | Ε | Р : | 199 | 9-9 | 1076 | 9 | 1999 | 0330 | | |
| | R: | ΑT, | BE, | CH, | DE, | ES, | FR, | GB, | IT, | L | I, | NL, | SE | | | | | |
| US | 6403 | 607 | | В | 1 | 2002 | 0611 | | U | S 2 | 200 | 0-6 | 4753 | 3 | 2000 | 1002 | | |
| PRIORIT | Y APP | LN. | INFO | .: | | | | j | TP 1 | 998 | 8-8 | 380 | 4 | Α | 1998 | 0330 | | |
| | | | | | | | | V | 10 1 | 999 | 9-J | P16 | 21 | W | 1999 | 0330 | | |
| OTHER SO | OURCE | (S): | | | MAF | RPAT | 131: | 26705 | 57 | | | | | | | | | |

$$Ra$$
 $Ar1-Rb$
 Rc
 SO_2-Ar2

AB Sulfonamide derivs. represented by general formula (I) or salts thereof, wherein A represents nitrogen, -CH=, etc.; Z represents oxygen, etc.; Arl represents aryl, etc.; Ar2 represents alkyl, etc.; Ra represents hydrogen, etc.; Rb represents halogeno, etc.; and Rc represents alkyl, etc. Because of having radical-scavenging effect, gastric secretion-potentiating effect, anti-HP bacterial effect, etc., these compds. are useful as remedies for peptic ulcer.

IT 245649-65-4P 245649-66-5P 245649-67-6P 245649-68-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(sulfonamide derivs. and antiulcer drugs contg. the same as the active ingredient)

RN 245649-65-4 CAPLUS

CN

CN

Benzenesulfonamide, 4-chloro-N-[2-(dimethylamino)ethyl]-N-[2-(1-piperazinyl)phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

HC1

RN 245649-66-5 CAPLUS

Benzenesulfonamide, N-(2-aminoethyl)-4-chloro-N-[2-[4-(4-chlorophenyl)-1-piperazinyl]phenyl]- (9CI) (CA INDEX NAME)

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RN 245649-67-6 CAPLUS

CN Benzenesulfonamide, N-[2-(2-aminoethoxy)ethyl]-4-chloro-N-[2-[4-(4-chlorophenyl)-1-piperazinyl]phenyl]- (9CI) (CA INDEX NAME)

RN : 245649-68-7 CAPLUS

CN Benzenesulfonamide, 4-chloro-N-[2-[4-(4-chlorophenyl)-1-piperazinyl]phenyl]-N-[2-(dimethylamino)ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ \text{Me}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{N} \\ & & \\$$

HCl

REFERENCE COUNT:

26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

1998:251153 CAPLUS 128:308308

TITLE:

The preparation and use of ortho-sulfonamido aryl

hydroxamic acids as matrix metalloproteinase and TACE

inhibitors

INVENTOR(S):

Levin, Jeremy Ian; Du Mila, T.; Venkatesan, Aranapakam

Mudumbai; Nelson, Frances Christy; Zask, Arie; Gu,

Yansong

PATENT ASSIGNEE(S):

SOURCE:

American Cyanamid Company, USA

PCT Int. Appl., 164 pp.

CODEN: PIXXD2 Patent

DOCUMENT TYPE:

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PAT | ENT | NO. | | KI | ND | DATE | | | A: | PPLI | CATI | ои ис | o. | DATE | | | |
|-----|------|-----|-----|-----|-----|------|------|-----|-----|------|------|-------|--------|------|------|-----|-----|
| WO | 9816 | 503 | | A: | 2 | 1998 | 0423 | | W | 0 19 | 97-U | S182 | 80 | 1997 | 1008 | | |
| | | | | | | | | | | | | | | CN, | | | DE, |
| | | | | | | | | | | | | | | KG, | | | |
| | | LC, | LK, | LR, | LS, | LT, | LU, | LV, | MD, | MG, | MK, | MN, | MW, | MX, | NO, | NZ, | PL, |
| | | PT, | RO, | RU, | SD, | SE, | SG, | SI, | SK, | SL, | ТJ, | TM, | TR, | TT, | UA, | UG, | UZ, |
| | | VN, | YU, | zw | | | | | | | | | | | | | |
| | RW: | GH, | KE, | LS, | MW, | SD, | SZ, | UG, | ZW, | AT, | BE, | CH, | DE, | DK, | ES, | FI, | FR, |
| | | GB, | GR, | IE, | ΙT, | LU, | MC, | NL, | PT, | SE, | BF, | ВJ, | CF, | CG, | CI, | CM, | GΑ, |
| | | | | | | SN, | | | | | | | | | | | |
| ΑU | 9851 | 458 | | A | 1 | 1998 | 0511 | | A | U 19 | 98-5 | 1458 | | 1997 | 1008 | | |
| | 7317 | | | | | | | | | | | | | | | | |
| | | | | | | | | | E | P 19 | 97-9 | 4624 | 6 | 1997 | 1008 | | |
| EΡ | 9384 | 71 | | B. | 1 | 2001 | 1212 | | | | | | | | | | |
| | R: | ΑT, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | ΙΤ, | LI, | LU, | NL, | SE, | PT, | ΙE, |
| | | | LT, | | | | | | | | | | | | | | |
| | 9712 | | | | | | | | | R 19 | 97-1 | 2525 | | 1997 | 1008 | | |
| CN | 1240 | 429 | | Α | | 2000 | 0105 | | C | N 19 | 97-1 | 8061 | 3 | 1997 | 1008 | | |
| | 2001 | | | | | | | | | P 19 | 98-5 | 1844 | 8 | 1997 | 1008 | | |
| | 2106 | | | | | | | | | | | | | 1997 | | | |
| ES | 2166 | 102 | | T | 3. | 2002 | 0401 | | E | S 19 | 97-9 | 4624 | 6 | 1997 | 1008 | | |

| PT | 938471 | T | 20020531 | | PT | 1997-97946 | 246 | 19971008 |
|----------|---------------|----|----------|----|-----|-------------|-----|----------|
| ZA | 9709233 | Α | 19990415 | | ZA | 1997-9233 | | 19971015 |
| TW | 410220 | В | 20001101 | | TW | 1997-861141 | 187 | 19971015 |
| KR | 2000049196 | Α | 20000725 | | KR | 1999-70329 | 4 | 19990415 |
| HK | 1021178 | A1 | 20020404 | | HK | 2000-10009 | 0 | 20000106 |
| PRIORITY | APPLN. INFO.: | | | US | 199 | 96-732631 | Α | 19961016 |
| | | | • | WO | 199 | 97-US18280 | W | 19971008 |

OTHER SOURCE(S):

MARPAT 128:308308

GI

$$\begin{array}{c|c} O \\ N \\ N \\ N \\ \end{array} \begin{array}{c} OH \\ N \\ \end{array} \begin{array}{c} OH \\ OH \\ \end{array}$$

AΒ The invention relates to novel, low mol. wt., non-peptide inhibitors of matrix metalloproteinases (e.g. gelatinases, stromelysins and collagenases) and TNF-.alpha. converting enzyme (TACE, tumor necrosis factor-.alpha. converting enzyme). The compds. are useful for the treatment of diseases in which these enzymes are implicated such as arthritis, tumor growth and metastasis, angiogenesis, tissue ulceration, abnormal wound healing, periodontal disease, bone disease, proteinuria, aneurysmal aortic disease, degenerative cartilage loss following traumatic joint injury, demyelinating diseases of the nervous system, graft rejection, cachexia, anorexia, inflammation, fever, insulin resistance, septic shock, congestive heart failure, inflammatory disease of the central nervous system, inflammatory bowel disease, HIV infection, age related macular degeneration, diabetic retinopathy, proliferative vitreoretinopathy, retinopathy of prematurity, ocular inflammation, keratoconus, Sjogren's syndrome, myopia, ocular tumors, and ocular angiogenesis/neovascularization. The invention compds. are represented by the formula ZSO2N(CH2R7)ACONHOH [I; A = (un)substituted Ph or naphthyl; Z = (un)substituted aryl, heteroaryl, or benzo-fused heteroaryl; R7 = H, (un) substituted alk(en/yn)yl, Ph, naphthyl, 5- or 6-membered heteroaryl, cycloalkyl, or cycloheteroalkyl; or R7CH2NA forms a non-arom. 1,2-benzo-fused 7- to 10-membered heterocyclic ring with an optional addn. benzo fusion; where the hydroxamic acid moiety and the sulfonamido moiety are bonded to adjacent carbons on group A], and include pharmaceutically acceptable salts, optical isomers, and diastereomers. Prepns. of over 400 compds., including I and their intermediates, are given. For instance, 2-[(4-methoxybenzenesulfonyl)amino]-3-méthylbenzoic acid Me ester (prepn. given) was N-alkylated by 3-picolyl chloride-HCl (83%), followed by hydrolysis of the ester with LiOH in aq. THF (100%), activation with oxalyl chloride, and hydroxamidation with NH2OH.HCl (51%), to give title compd. II. At 50 mg/kg/day in rats with cartilage implants, II gave 44.6% inhibition of cartilage wt. loss, and 51.2% inhibition of cartilage collagen loss.

IT 206548-66-5P 206548-67-6P 206549-85-1P 206549-97-5P 206550-00-7P 206551-39-5P 206551-61-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; prepn. of ortho-sulfonamido aryl hydroxamic acids as

matrix metalloproteinase and TACE inhibitors)

RN 206548-66-5 CAPLUS

CN Benzoic acid, 2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3-[(4-methyl-1-piperazinyl)methyl]-, methyl ester (9CI) (CA INDEX NAME)

RN 206548-67-6 CAPLUS

CN Benzoic acid, 2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

RN 206549-85-1 CAPLUS

CN Benzoic acid, 5-bromo-2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3-[(4-methyl-1-piperazinyl)methyl]-, methyl ester (9CI) (CA INDEX NAME)

RN 206549-97-5 CAPLUS

CN Benzoic acid, 2-[[(4-methoxyphenyl)sulfonyl]octylamino]-3-[(4-methyl-1-piperazinyl)methyl]-, methyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & (CH_2) & 7^{-} \text{Me} \\ MeO-C & O & OMe \\ \hline & N-S & OMe \\ \hline & CH_2-N & N \\ \hline & Me \\ \end{array}$$

RN 206550-00-7 CAPLUS

CN Benzoic acid, 2-[[(4-methoxyphenyl)sulfonyl](3-thienylmethyl)amino]-3-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

RN 206551-39-5 CAPLUS

CN Benzoic acid, 2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3-[(4-methyl-1-piperazinyl)methyl]-, lithium salt (9CI) (CA INDEX NAME)

• Li

RN 206551-61-3 CAPLUS

CN Benzamide, 5-bromo-N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3[(4-methyl-1-piperazinyl)methyl]-, monolithium salt (9CI) (CA INDEX NAME)

● Li

IT. 206548-68-7P 206549-86-2P 206549-98-6P 206550-01-8P 206550-02-9P 206551-40-8P 206551-62-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of ortho-sulfonamido aryl hydroxamic acids as matrix metalloproteinase and TACE inhibitors)

RN 206548-68-7 CAPLUS

CN Benzamide, N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

RN 206549-86-2 CAPLUS

CN Benzamide, 5-bromo-N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

RN 206549-98-6 CAPLUS

CN Benzamide, N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl]octylamino]-3-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

RN 206550-01-8 CAPLUS

CN Benzamide, N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl](3-thienylmethyl)amino]-3-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

RN 206550-02-9 CAPLUS

CN Benzamide, N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl](phenylmethyl)amino]-3-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

RN 206551-40-8 CAPLUS

CN Benzamide, N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3-[(4-methyl-1-piperazinyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & & & \\ HO-NH-C & & Me & O \\ \hline & N-S & & \\ \hline & O & & \\ CH_2-N & & \\ & & Me \\ \end{array}$$

● HCl

RN 206551-62-4 CAPLUS

CN Benzamide, 5-bromo-N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl]methylamino]-3[(4-methyl-1-piperazinyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

● HCl

ACCESSION NUMBER:

1995:229089 CAPLUS

DOCUMENT NUMBER:

122:9661

TITLE:

Preparation of sulfonylaminobenzylamine derivatives and heterocycle-containing benzylamine derivatives as

ulcer inhibitors

INVENTOR(S):

Hidaka, Hiroyoshi; Ishikawa, Tomohiko

PATENT ASSIGNEE(S):

Hidaka Hiroyoshi, Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 25 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 06072979 A2 19940315 JP 1992-171521 19920608

PRIORITY APPLN. INFO.:

JP 1992-171521 19920608

OTHER SOURCE(S):

MARPAT 122:9661

GI

$$\begin{array}{c|c} & \text{CH}_2\text{CH}_2\text{NH}_2\\ & \text{NSO}_2 \\ \hline \\ \text{C1} & \text{SCH}_2\text{CH}_2\text{NCH}_2 \\ \end{array}$$

Ι

The title compds. R2Y(R1)NPhCH2X(R3)AR4 [R1 = H, (substituted) alkyl; R2 = (substituted) quinolyl, Ph, etc.; R3 = H, Me; R4 = (substituted) Ph, triazolyl, etc.; X = N, S, etc.; Y = sulfonyl, carbonyl; A = methylene, ethylenethio, etc.; Ph = unsubstituted or methoxy-substituted phenylene] are prepd. Benzylamine deriv. I was prepd. in multiple steps from p-ClC6H4SCH2CH2NH2. In rats dosed with I (100 mg/Kg), the pH in the stomach was 3.6, vs. 1.4 in controls. Formulations contg. title compds. are given.

IT 159452-18-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as ulcer inhibitor)

RN 159452-18-3 CAPLUS

CN 8-Quinolinesulfonamide, N-[2-[[4-(3-phenyl-2-propenyl)-1-piperazinyl]methyl]phenyl]- (9CI) (CA INDEX NAME)

Ph-CH=CH-CH₂

N CH₂

NH

O=S=O

L10 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1993:539132 CAPLUS

DOCUMENT NUMBER: 119:139132

TITLE: Preparation of quinolinesulfonanilide derivatives as

vasodilators and antihypertensives

INVENTOR(S): Hidaka, Hiroyoshi

PATENT ASSIGNEE(S): Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 04330057 A2 19921118 JP 1991-128383 19910501
PRIORITY APPLN. INFO:: JP 1991-128383 19910501

OTHER SOURCE(S): MARPAT 119:139132

GΙ

The title compds. [I; R1 = 3-pyridyl, 8-quinolinyl, 2-acetyl-1,2,3,4-tetrahydro-7-isoquinolinyl; R2 = H, HOCH2CH2, H2NCH2CH2; R3 = alkoxy; X = Q, SCH2CH:CH, etc.; n = 0-3] are prepd. Aq. NaOH was added to a soln. of 0.8 g PhCH:CHCH2SH in MePh with stirring, followed by 1.0 g o-O2NC6H4CH2Cl, and the mixt. was stirred at 60.degree. to give 2.4 g o-RC6H4CH2SCH2CH:CHPh (II; R = NO2), which was dissolved in THF and reduced with SnCl2 and HCl to give 1.9 g amine II (R = NH2), which was dissolved i pyridine and heated with 1.8 g 8-quinolinesulfonyl chloride at 60.degree. to give 3.2 g anilide III. III showed smooth muscle relaxation activity at 4.1 .mu.M.

IT 149757-46-0P 149757-48-2P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, as vasodilator and antihypertensive)

RN 149757-46-0 CAPLUS

CN 8-Quinolinesulfonamide, N-[2-[[4-(3-phenyl-2-propenyl)-1-piperazinyl]methyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN 149757-48-2 CAPLUS

CN 7-Isoquinolinesulfonamide, 2-acetyl-1,2,3,4-tetrahydro-N-[2-[4-(3-phenyl-2-propenyl)-1-piperazinyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L10 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1968:459196 CAPLUS

DOCUMENT NUMBER:

69:59196

TITLE:

Amination of N,N'-dibenzenesulfonyl-1,4-benzoquinone di-imines: photochemical formation of benzimidazoles

AUTHOR(S):

Baxter, I.; Cameron, D. W. Univ. Chem. Lab., Cambridge, UK

CORPORATE SOURCE: SOURCE:

Journal of the Chemical Society [Section] C: Organic

(1968), (14), 1747-52

CODEN: JSOOAX; ISSN: 0022-4952

DOCUMENT TYPE:

LANGUAGE:

Journal English

OTHER SOURCE(S):

CASREACT 69:59196

GI For diagram(s), see printed CA Issue.

AB 2-Methyl- and 2,5-dimethyl - N,N' - bis(phenylsulfonyl)-1,4-benzoquinone diimines undergo side-chain amination by piperidine or piperazine, a process that has analogy in the quinone series. Geometrical isomerism in several of these diimines is discussed on the basis of N.M.R. spectroscopic evidence. Certain of the nuclear aminated diimine derivatives are converted photochem. into benzimidazole derivs., e.g. I. The scope of this novel process is investigated. 17 references.

IT 19835-96-2P 19835-97-3P 19835-98-4P

19835-99-5P 19836-00-1P

RN 19835-96-2 CAPLUS

CN Benzenesulfonamide, N,N'-(2,5-di-1-piperazinyl-p-phenylene)bis- (8CI) (CA INDEX NAME)

RN 19835-97-3 CAPLUS

CN Benzenesulfonamide, N,N'-[2-methyl-5-(1-piperazinyl)-p-phenylene]bis-(8CI) (CA INDEX NAME)

RN 19835-98-4 CAPLUS

CN Benzenesulfonamide, N,N'-[2-methoxy-5-(1-piperazinyl)-p-phenylene]bis-(8CI) (CA INDEX NAME)

RN 19835-99-5 CAPLUS

CN Benzenesulfonamide, N,N'-[2-methyl-5-(1-piperazinylmethyl)-p-phenylene]bis-(8CI) (CA INDEX NAME)

RN 19836-00-1 CAPLUS

CN Benzenesulfono-m-toluidide, 5',5'''-(1,4-piperazinediyl)bis[4'-benzenesulfonamido-(8CI) (CA INDEX NAME)

L10 ANSWER 13 OF 20 USPATFULL on STN

ACCESSION NUMBER:

2003:325139 USPATFULL

TITLE:

Piperidine CCR-3 receptor antagonists

INVENTOR(S):

Du Bois, Daisy Joe, Palo Alto, CA, UNITED STATES

Kertesz, Denis John, Mountain View, CA, UNITED STATES Sjogren, Eric Brian, Mountain View, CA, UNITED STATES Smith, David Bernard, San Mateo, CA, UNITED STATES

Wang, Beihan, Santa Clara, CA, UNITED STATES

PATENT ASSIGNEE(S):

Syntex (U.S.A.) LLC (U.S. corporation)

| | NI | JMBER | KIN | D | DATE | | | |
|--|--------------------|-------------------------------------|-----|-------|----------------------------|---------|------|-------|
| PATENT INFORMATION: APPLICATION INFO.: | | 3229121 2-307130 | | _ | 031211 021129 | (10) | | |
| • | | NUMBER | | DATE | _ | | | |
| PRIORITY INFORMATION: | US 2001 | L-334653P L-334819P L-334655P | 20 | 01113 | 0 (60) 0 (60) 0 (60) | | | |
| DOCUMENT TYPE: FILE SEGMENT: LEGAL REPRESENTATIVE: | Utility APPLICA | / ATION PALO ALTO | | | , , , , , | AVENUE, | PALO | ALTO, |

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

28 1

LINE COUNT:

2889

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides compounds of Formula (I):

wherein: R.sup.1-R.sup.5, A, L, and X have any of the values defined in the specification that are CCR-3 receptor antagonists, pharmaceutical compositions containing them, methods for their use, and methods and intermediates useful for preparing them.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 538342-67-5P, N-[2-[4-(3,4-Dichlorobenzyl)piperazin-1-yl]phenyl]-

4-methylbenzenesulfonamide

(drug candidate; prepn. of piperazinyl carboxamides, sulfonamides,

ureas and related compds. as CCR3 receptor antagonists for

treating/diagnosing asthma)

RN 538342-67-5 USPATFULL

CN Benzenesulfonamide, N-[2-[4-[(3,4-dichlorophenyl)methyl]-1piperazinyl]phenyl]-4-methyl- (9CI) (CA INDEX NAME)

L10 ANSWER 14 OF 20 USPATFULL on STN

ACCESSION NUMBER:

2003:251652 USPATFULL

TITLE:

Piperazine CCR-3 receptor antagonists

Du Bois, Daisy Joe, Palo Alto, CA, UNITED STATES INVENTOR(S): Kertesz, Denis John, Mountain View, CA, UNITED STATES

Sjogren, Eric Brian, Mountain View, CA, UNITED STATES Smith, David Bernard, San Mateo, CA, UNITED STATES

(10)

Wang, Beihan, Santa Clara, CA, UNITED STATES

| | NUMBER | KIND | DATE | |
|---------------------|----------------|------|----------|--|
| | | | | |
| PATENT INFORMATION: | US 2003176441 | A1 | 20030918 | |
| APPLICATION INFO : | US 2002-307159 |) A1 | 20021129 | |

NUMBER DATE

US 2001-334655P PRIORITY INFORMATION: 20011130 (60)

DOCUMENT TYPE: Utility

APPLICATION FILE SEGMENT: LEGAL REPRESENTATIVE:

ROCHE PALO ALTO LLC, 3431 HILLVIEW AVENUE, PATENT

DEPT., M/S A2-250, PALO ALTO, CA, 94304

NUMBER OF CLAIMS: 25 EXEMPLARY CLAIM: 1 LINE COUNT: 1442

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AR The invention provides compounds of Formula (I): ##STR1##

> wherein: R.sup.1--R.sup.4, A, L, and X have any of the values defined in the specification that are CCR-3 receptor antagonists, pharmaceutical compositions containing them, methods for their use, and methods and intermediates useful for preparing them.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **538342-67-5P**, N-[2-[4-(3,4-Dichlorobenzyl)piperazin-1-yl]phenyl]-

4-methylbenzenesulfonamide

(drug candidate; prepn. of piperazinyl carboxamides, sulfonamides, ureas and related compds. as CCR3 receptor antagonists for

treating/diagnosing asthma)

538342-67-5 USPATFULL RN

CN Benzenesulfonamide, N-[2-[4-[(3,4-dichlorophenyl)methyl]-1piperazinyl]phenyl]-4-methyl- (9CI) (CA INDEX NAME)

L10 ANSWER 15 OF 20 USPATFULL on STN

ACCESSION NUMBER:

2003:220287 USPATFULL

TITLE:

CCR-3 receptor antagonists (I)

INVENTOR(S):

Bois, Daisy Joe Du, Palo Alto, CA, UNITED STATES

Wang, Beihan, Santa Clara, CA, UNITED STATES

| | NUMBER | KIND | DATE | |
|------------------------|---------------|------|----------|------|
| | | | | |
| PATENT INFORMATION: US | 3 2003153578 | A1 | 20030814 | |
| APPLICATION INFO.: US | 3 2002-306820 | A1 | 20021127 | (10) |

NUMBER DATE

PRIORITY INFORMATION:

US 2001-334819P

20011130 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

LEGAL REPRESENTATIVE:

ROCHE PALO ALTO LLC, 3401 HILLVIEW AVENUE, INTELLECTUAL

PROPERTY LAW DEPT., MS A2-250, PALO ALTO, CA,

94304-9819

NUMBER OF CLAIMS:

36

EXEMPLARY CLAIM:

1

LINE COUNT:

1562

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compounds of Formula (I):

> wherein: R.sup.1-R.sup.4, A, D, and L have any of the values defined in the specification that are CCR-3 receptor antagonists, pharmaceutical compositions containing them, methods for their use, and methods and intermediates useful for preparing them.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 538342-67-5P, N-[2-[4-(3,4-Dichlorobenzyl)piperazin-1-yl]phenyl]-

4-methylbenzenesulfonamide

(drug candidate; prepn. of piperazinyl carboxamides, sulfonamides, ureas and related compds. as CCR3 receptor antagonists for

treating/diagnosing asthma)

RN538342-67-5 USPATFULL

Benzenesulfonamide, N-[2-[4-[(3,4-dichlorophenyl)methyl]-1-CN piperazinyl]phenyl]-4-methyl- (9CI) (CA INDEX NAME)

L10 ANSWER 16 OF 20 USPATFULL on STN

ACCESSION NUMBER:

2003:140118 USPATFULL Inhibitors of bace

INVENTOR(S):

TITLE:

Bhisetti, Govinda R., Lexington, MA, UNITED STATES

Saunders, Jeffrey O., Acton, MA, UNITED STATES Murcko, Mark A., Holliston, MA, UNITED STATES Lepre, Christopher A., Concord, MA, UNITED STATES

Britt, Shawn D., Andover, MA, UNITED STATES

Come, Jon H., Cambridge, MA, UNITED STATES

Deininger, David D., Arlington, MA, UNITED STATES

Wang, Tianshang, Concord, MA, UNITED STATES

| • | NUMBER | KIND | DATE | |
|--|---|------------------------|----------------------|------|
| PATENT INFORMATION: APPLICATION INFO.: | US 2003095958 US 2002-136576 | A1 A1 | 20030522 20020429 | (10) |
| | NUMBER | DA: | ΓE | |
| PRIORITY INFORMATION: | US 2001-287169P US 2001-301049P US 2001-342263P | 20010 20010 2001 | , , | |

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

VERTEX PHARMACEUTICALS INCORPORATED, 130 Waverly LEGAL REPRESENTATIVE:

Street, Cambridge, MA, 02130-4646

NUMBER OF CLAIMS: 71

EXEMPLARY CLAIM:

5 Drawing Page(s)

NUMBER OF DRAWINGS: LINE COUNT:

5249

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention relates to inhibitors of aspartic proteinases, particularly, BACE. The present invention also relates to compositions thereof and methods therewith for inhibiting BACE activity in a mammal, and for treating Alzheimer's Disease and other BACE-mediated diseases.

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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
   474329-75-4P, 4'-Trifluoromethylbiphenyl-4-sulfonic acid
      N-(2-(piperazin-1-yl)-5-trifluoromethylphenyl)amide 474329-76-5P
      , 4'-Trifluoromethylbiphenyl-4-sulfonic acid N-(2-(piperazin-1-yl)-5-
      trifluoromethylphenyl)amide trifluoroacetate 474331-10-7P,
      Naphthalene-1-sulfonic acid N-(2-(piperazin-1-yl)-5-
      trifluoromethylphenyl)amide 474331-11-8P, Naphthalene-2-
      sulfonic acid N-(2-(piperazin-1-yl)-5-trifluoromethylphenyl)amide
      474331-12-9P, Biphenyl-4-sulfonic acid N-(2-(piperazin-1-yl)-5-
      trifluoromethylphenyl)amide 474331-44-7P, 2'-
      Trifluoromethylbiphenyl-4-sulfonic acid N-(2-(piperazin-1-yl)-5-
      trifluoromethylphenyl)amide 474331-50-5P, 4'-
      Trifluoromethylbiphenyl-4-sulfonic acid N-(3',4'-dichloro-4-(piperazin-1-
      yl)biphenyl-3-yl)amide 474331-51-6P, 3'-Chlorobiphenyl-4-
      sulfonic acid (3',4'-dichloro-4-(piperazin-1-yl)biphenyl-3-yl)amide
      474331-52-7P, 4'-Chlorobiphenyl-4-sulfonic acid
      (3',4'-dichloro-4-(piperazin-1-yl)biphenyl-3-yl)amide
      474331-53-8P, 3'-Methylbiphenyl-4-sulfonic acid
      (3',4'-dichloro-4-(piperazin-1-yl)biphenyl-3-yl)amide
      474331-54-9P, 4'-Methylbiphenyl-4-sulfonic acid
      (3', 4'-dichloro-4-(piperazin-1-yl)biphenyl-3-yl)amide
        (drug candidate; prepn. of .beta.-carbolines and other inhibitors of
        BACE-1 aspartic proteinase useful against Alzheimer's and other
        BACE-mediated diseases)
RN
     474329-75-4 USPATFULL
CN
     [1,1'-Biphenyl]-4-sulfonamide, N-[2-(1-piperazinyl)-5-
       (trifluoromethyl)phenyl]-4'-(trifluoromethyl)- (9CI) (CA INDEX NAME)
```

CM 1

CRN 474329-75-4 CMF C24 H21 F6 N3 O2 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 474331-10-7 USPATFULL

CN 1-Naphthalenesulfonamide, N-[2-(1-piperazinyl)-5-(trifluoromethyl)phenyl]-(9CI) (CA INDEX NAME)

RN 474331-11-8 USPATFULL

CN 2-Naphthalenesulfonamide, N-[2-(1-piperazinyl)-5-(trifluoromethyl)phenyl]-(9CI) (CA INDEX NAME)

RN 474331-12-9 USPATFULL

CN [1,1'-Biphenyl]-4-sulfonamide, N-[2-(1-piperazinyl)-5-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

RN 474331-44-7 USPATFULL

CN [1,1'-Biphenyl]-4-sulfonamide, N-[2-(1-piperazinyl)-5- (trifluoromethyl)phenyl]-2'-(trifluoromethyl)- (9CI) (CA INDEX NAME)

RN 474331-50-5 USPATFULL

CN [1,1'-Biphenyl]-4-sulfonamide, N-[3',4'-dichloro-4-(1-piperazinyl)[1,1'-biphenyl]-3-yl]-4'-(trifluoromethyl)- (9CI) (CA INDEX NAME)

RN 474331-51-6 USPATFULL

CN [1,1'-Biphenyl]-4-sulfonamide, 3'-chloro-N-[3',4'-dichloro-4-(1-piperazinyl)[1,1'-biphenyl]-3-yl]- (9CI) (CA INDEX NAME)

RN 474331-52-7 USPATFULL

CN [1,1'-Biphenyl]-4-sulfonamide, 4'-chloro-N-[3',4'-dichloro-4-(1-piperazinyl)[1,1'-biphenyl]-3-yl]- (9CI) (CA INDEX NAME)

RN 474331-53-8 USPATFULL

CN [1,1'-Biphenyl]-4-sulfonamide, N-[3',4'-dichloro-4-(1-piperazinyl)[1,1'-biphenyl]-3-yl]-3'-methyl- (9CI) (CA INDEX NAME)

RN 474331-54-9 USPATFULL

CN [1,1'-Biphenyl]-4-sulfonamide, N-[3',4'-dichloro-4-(1-piperazinyl)[1,1'biphenyl]-3-yl]-4'-methyl- (9CI) (CA INDEX NAME)

L10 ANSWER 17 OF 20 USPATFULL on STN

ACCESSION NUMBER:

2002:236011 USPATFULL

TITLE:

Nonpeptide agonists and antagonists of vasopressin

receptors

INVENTOR(S):

Snyder, James P., Atlanta, GA, UNITED STATES

Liotta, Dennis C., Atlanta, GA, UNITED STATES

Venkatesan, Hariharan, San Diego, CA, UNITED STATES Wang, Minmin, Indianapolis, IN, UNITED STATES

Davis, Matthew C., Ridgecrest, CA, UNITED STATES

KIND DATE NUMBER US 2002128208 A1 20020912 US 2001-23603

PATENT INFORMATION: APPLICATION INFO.:

> NUMBER DATE

PRIORITY INFORMATION:

US 2000-255946P

20001215 (60)

20011217

(10)

DOCUMENT TYPE: FILE SEGMENT:

Utility APPLICATION Α1

LEGAL REPRESENTATIVE:

KING & SPALDING, 191 PEACHTREE STREET, N.E., ATLANTA,

GA, 30303-1763

NUMBER OF CLAIMS:

33

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

14 Drawing Page(s)

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The disclosed invention is a composition agonists and/or antagonists of V.sub.2, V.sub.1a or both receptors, in a host, including animals, and especially humans, using a small molecule or its pharmaceutically

acceptable salt or prodrug.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

438192-11-1P

(diarylsulfonamides and N-arylbenzamides as nonpeptide agonists and antagonists of vasopressin receptors)

RN 438192-11-1 USPATFULL

Benzamide, N-(1,1-dimethylethyl)-4-[[[2-(1-piperazinyl)phenyl]amino]sulfon yl]- (9CI) (CA INDEX NAME)

L10 ANSWER 18 OF 20 USPATFULL on STN

ACCESSION NUMBER:

2002:332835 USPATFULL

TITLE:

Silver halide color photographic lightsensitive

material and novel pyrrolotriazole compound Tateishi, Keiichi, Minami-Ashigara, JAPAN

INVENTOR(S): Mikoshiba, Hisashi, Minami-Ashigara, JAPAN

Matsuda, Naoto, Minami-Ashigara, JAPAN

PATENT ASSIGNEE(S):

Fuji Photo Film Co., Ltd., Kanagawa, JAPAN (non-U.S.

corporation)

NUMBER KTND DATE US 6495697 В1 20021217

APPLICATION INFO.: RELATED APPLN. INFO.:

PATENT INFORMATION:

US 2002-121593 20020415 Division of Ser. No. US 2000-675213, filed on 29 Sep

2000, now patented, Pat. No. US 6399291

NUMBER DATE

PRIORITY INFORMATION:

JP 1999-279838 19990930

DOCUMENT TYPE: Utility GRANTED

FILE SEGMENT: PRIMARY EXAMINER: ASSISTANT EXAMINER:

McKane, Joseph K. Anderson, Rebecca

LEGAL REPRESENTATIVE:

Birch, Stewart, Kolasch & Birch, LLP

NUMBER OF CLAIMS:

10

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

0 Drawing Figure(s); 0 Drawing Page(s)

LINE COUNT: 2832

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

As a silver halide color photographic lightsensitive material contains a coupler represented by formula (I) below in at least one layer on a support (in this formula, X represents a hydrogen atom or a group which can split off by a coupling reaction with an oxidized form of an aromatic primary amine color developing agent, each of R.sub.1 and R.sub.2 represents an electron-attracting group having a Hammett's substituent constant p value of 0.20 or more, and the sum of the p values of R.sub.1 and R.sub.2 is 0.65 or more, and each of G.sub.1 and G.sub.2 represents a nitrogen atom or a substituent). A pyrrolotriazole compound represented by formula (I) below is also provided. ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 344941-66-8P

(silver halide color photog. material contg. pyrrolotriazole cyan coupler)

RN 344941-66-8 USPATFULL

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-[4-[4-(2,2-dimethyl-1-oxopropyl)-1-piperazinyl]-3-[[[2-[[1-[(3-ethoxy-3-oxopropyl)amino]carbonyl]undecyl]oxy]-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)

L10 ANSWER 19 OF 20 USPATFULL on STN

ACCESSION NUMBER:

2002:137010 USPATFULL

TITLE:

Sulfonamide derivatives and drugs containing the same

as the active ingredient

INVENTOR(S):

Hidaka, Hiroyoshi, 607, Otokikiyama, Tenpaku-ku,

Nagoyai-shi, Aichi 468-0063, JAPAN

Inoue, Tsutomu, Funabashi, JAPAN

Umezawa, Isao, Tokyo, JAPAN Nakano, Hiroyuki, Machida, JAPAN Nakamura, Hiroshi, Nagareyama, JAPAN

Watanabe, Naofumi, Inagi, JAPAN

Yokota, Shizumasa, Tsurugashima, JAPAN Sasaki, Tomomitsu, Ageo, JAPAN

Sasaki, Tomomitsu, Ageo, JAPAN Yajima, Yumi, Matsudo, JAPAN

PATENT ASSIGNEE(S):

Hidaka, Hiroyoshi, Nagoya, JAPAN (non-U.S. individual)

NUMBER KIND DATE

PATENT INFORMATION:

US 6403607 WO 9950237

20020611 19991007

APPLICATION INFO.:

US 2000-647533

20001002 (9)

WO 1999-JP1621

19990330

20001002 PCT 371 date

NUMBER

DATE

В1

PRIORITY INFORMATION:

JP 1998-83804

19980330

DOCUMENT TYPE:

Utility

FILE SEGMENT:

GRANTED

PRIMARY EXAMINER: ASSISTANT EXAMINER: Rotman, Alan L.

LEGAL REPRESENTATIVE:

Robinson, Binta

NUMBER OF CLAIMS:

Oblon, Spivak, McClelland, Maier & Neustadt, P.C.

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

0 Drawing Figure(s); 0 Drawing Page(s)

LINE COUNT:

2637

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB

The present invention discloses a sulfonamide derivative represented by the following formula (1): ##STR1##

[wherein A represents a nitrogen atom, --CH.dbd., etc.; Z represents an oxygen atom, etc.; Ar.sup.1 represents an aryl group, etc.; Ar.sup.2 represents an alkyl group, etc.; R.sup.a represents a hydrogen atom, etc.; R.sup.b represents a hydrogen atom, etc.; and R.sup.c represents an alkyl group, etc.], or a salt thereof; and drugs containing the derivative or a salt thereof as an active ingredient.

This compound exhibits radical scavenging action, gastric mucous secretion augmenting action, and anti-HP action, and thus is effective as a peptic ulcer therapeutic agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

245649-65-4P 245649-66-5P 245649-67-6P 245649-68-7P

(sulfonamide derivs. and antiulcer drugs contg. the same as the active ingredient)

RN 245649-65-4 USPATFULL

CN Benzenesulfonamide, 4-chloro-N-[2-(dimethylamino)ethyl]-N-[2-(1piperazinyl)phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

HC1

RN 245649-66-5 USPATFULL

CN

Benzenesulfonamide, N-(2-aminoethyl)-4-chloro-N-[2-[4-(4-chlorophenyl)-1piperazinyl]phenyl]- (9CI) (CA INDEX NAME)

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RN 245649-67-6 USPATFULL

CN Benzenesulfonamide, N-[2-(2-aminoethoxy)ethyl]-4-chloro-N-[2-[4-(4-chlorophenyl)-1-piperazinyl]phenyl]- (9CI) (CA INDEX NAME)

RN 245649-68-7 USPATFULL

CN Benzenesulfonamide, 4-chloro-N-[2-[4-(4-chlorophenyl)-1-piperazinyl]phenyl]-N-[2-(dimethylamino)ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ \text{Me}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{N} \\ & & \\ & \text{O} \end{array}$$

→ HCl

L10 ANSWER 20 OF 20 USPATFULL on STN

ACCESSION NUMBER:

2002:129712 USPATFULL

TITLE:

Silver halide color photographic lightsensitive

material and novel pyrrolotriazole compound

INVENTOR(S):

Tateishi, Keiichi, Minami-Ashigara, JAPAN Mikoshiba, Hisashi, Minami-Ashigara, JAPAN

Matsuda, Naoto, Minami-Ashigara, JAPAN

PATENT ASSIGNEE(S):

Fuji Photo Film Co., Ltd., Kanagawa, JAPAN (non-U.S.

corporation)

| | | NUMBER | KIND | DATE | |
|---------------------|----|-------------|------|----------|-----|
| | | | | | |
| PATENT INFORMATION: | US | 6399291 | В1 | 20020604 | |
| APPLICATION INFO . | HS | 2000~675213 | | 20000929 | (9) |

APPLICATION INFO.:

NUMBER DATE

JP 1999-279838 19990930

PRIORITY INFORMATION: DOCUMENT TYPE:

Utility

FILE SEGMENT:

GRANTED

PRIMARY EXAMINER:

Letscher, Geraldine

LEGAL REPRESENTATIVE:

Birch, Stewart, Kolasch & Birch, LLP

NUMBER OF CLAIMS:

8

EXEMPLARY CLAIM:

0 Drawing Figure(s); 0 Drawing Page(s)

NUMBER OF DRAWINGS: LINE COUNT:

2784

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A silver halide color photographic lightsensitive material contains a coupler represented by formula (I) below in at least one layer on a support (in this formula, X represents a hydrogen atom or a group which can split off by a coupling reaction with an oxidized form of an aromatic primary amine color developing agent, each of R.sub.1 and R.sub.2 represents an electron-attracting group having a Hammett's substituent constant .sigma.p value of 0.20 or more, and the sum of the .sigma.p values of R.sub.1 and R.sub.2 is 0.65 or more, and each of G.sub.1 and G.sub.2 represents a nitrogen atom or a substituent). A pyrrolotriazble compound represented by formula (I) below is also provided. ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 344941-66-8P

(silver halide color photog. material contg. pyrrolotriazole cyan coupler) $\label{eq:color}$

RN 344941-66-8 USPATFULL

CN

1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-[4-[4-(2,2-dimethyl-1-oxopropyl)-1-piperazinyl]-3-[[[2-[[1-[[(3-ethoxy-3-oxopropyl)amino]carbonyl]undecyl]oxy]-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)

FILE 'CAOLD' ENTERED AT 10:38:40 ON 07 JAN 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1907-1966 FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

L4 STR

L6 53 SEA FILE=REGISTRY SSS FUL L4

L9 0 SEA FILE=CAOLD ABB=ON L6

FILE 'HOME' ENTERED AT 10:38:40 ON 07 JAN 2004

AB The title compds. were prepd. as agonists and/or antagonists of V2, V1a or both receptors, in humans, for use in treating renal dysfunction or hypertension (no data). Thus, the sulfonamide I was obtained by benzoylating p-phenylenediamine and reaction with (-)-camphorsulfonyl chloride.

IT 438192-11-1P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(diarylsulfonamides and N-arylbenzamides as nonpeptide agonists and antagonists of vasopressin receptors)

L13 ANSWER 2 OF 2 USPATFULL on STN

ACCESSION NUMBER: 2002:236011 USPATFULL

TITLE: Nonpeptide agonists and antagonists of vasopressin

receptors

INVENTOR(S): Snyder, James P., Atlanta, GA, UNITED STATES
Liotta, Dennis C., Atlanta, GA, UNITED STATES

Venkatesan, Hariharan, San Diego, CA, UNITED STATES

Wang, Minmin, Indianapolis, IN, UNITED STATES
Davis, Matthew C., Ridgecrest, CA, UNITED STATES

NUMBER DATE

PRIORITY INFORMATION: US 2000-255946P 20001215 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: KING & SPALDING, 191 PEACHTREE STREET, N.E., ATLANTA,

GA, 30303-1763

NUMBER OF CLAIMS: 33 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 14 Drawing Page(s)

LINE COUNT: 4297

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The disclosed invention is a composition agonists and/or antagonists of V.sub.2, V.sub.1a or both receptors, in a host, including animals, and especially humans, using a small molecule or its pharmaceutically acceptable salt or prodrug.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 438192-11-1P

(diarylsulfonamides and N-arylbenzamides as nonpeptide agonists and antagonists of vasopressin receptors)

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